

STORM DRAIN IMPROVEMENT PLANS

FOR

TRACT NO. 31801 D.R. HORTON - REDINGTON

GENERAL NOTES:

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
7. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
8. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE #1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
9. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
10. FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER.
11. IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.
12. DEVELOPER AND/OR CONTRACTOR TO GIVE RCFC 5-DAYS WRITTEN NOTICE PRIOR TO STARTING WORK ON STORM DRAIN (OR DOING AND WORK WITHIN RCFC EASEMENTS). RCFC ENCROACHMENT PERMIT NO. _____

ENGINEER'S NOTICE TO CONTRACTOR:

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
2. ALL UNDERGROUND UTILITIES OR STRUCTURES, REPORTED OR FOUND ON PUBLIC RECORDS, ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH THE IMPROVEMENTS HEREON, AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED OR INDICATED ON PUBLIC RECORDS, OR THOSE CONSTRUCTED AT VARIANCE WITH REPORTED OR RECORDED LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHERS FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
3. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
4. THE ENGINEER DOES NOT RECOMMEND OR ENDORSE THE USE OF ASBESTOS-CEMENT WATER PIPE OR ANY PRODUCTS CONTAINING ASBESTOS DUE TO THE HEALTH HAZARD CONNECTED WITH SUCH PRODUCTS. SPECIFICATION HEREON OF ANY SUCH PRODUCT IS AT THE DIRECTION OF THE JURISDICTIONAL AGENCY. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL CONSTRUCTION, CONNECTION AND REMOVAL OF ASBESTOS PRODUCTS AND SHALL FOLLOW ALL OSHA & EPA GUIDELINES TO MINIMIZE HEALTH HAZARDS.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN HEREON AT THE JOB SITE PRIOR TO ANY CONSTRUCTION. FUSCOE ENGINEERING, INC. SHALL BE NOTIFIED OF ANY DISCREPANCIES. REVISIONS TO THE PLAN SHALL BE APPROVED BY THE ENGINEERING IN WRITING PRIOR TO IMPLEMENTATION.

DECLARATION OF ENGINEER OF RECORD:

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF RIVERSIDE IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH CITY PROCEDURES, APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD, I AGREE TO INDEMNIFY AND HOLD THE CITY OF RIVERSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OR ANY EMPLOYEES, AGENTS, OR CONSULTANTS.

STEVEN L. ELLIS 47255 02/25/05
ENGINEER NAME LICENSE NUMBER DATE

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON THE BEARING ALONG THE CENTERLINE OF CHICAGO AVENUE BEING NORTH 00°07'00" EAST, PER LAMBERT TRACT NO. 1, M.B. 26/55.

PREPARED UNDER THE DIRECTION OF:

STEVEN L. ELLIS
REGISTERED CIVIL ENGINEER No. 047255

EXPIRATION DATE 12/31/05 DATE 2/28/05

SCALE: AS SHOWN

02/25/05

BENCHMARK:

BENCH MARK: CITY OF RIVERSIDE
BENCH MARK DESIGNATION: 10-23
ELEVATION: 955.980 / NGVD 1929
ESTABLISHED BY C.E.S. 1970 / (REVISED 1996)

P.K. NAIL AND CITY ENGINEER TAG IN THE NORTHEAST CORNER OF A CATCHBASIN ALONG THE NORTHERLY CURB OF MARTIN LUTHER KING BLVD. AT THE NORTHEAST CORNER OF OTTAWA AVE AND MARTIN LUTHER KING BLVD.

PREPARED BY:

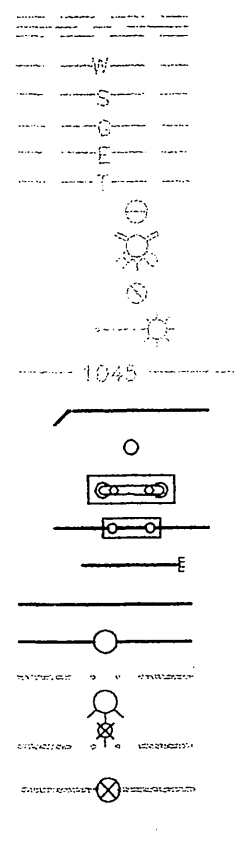
FUSCOE
ENGINEERING

10880 Commerce Center Dr., Ste. 200
Riverside, California 92503
Phone (951) 511-6676
FAX (951) 581-0096
Civil Engineers Land Surveyors
Job Number: 315.0501

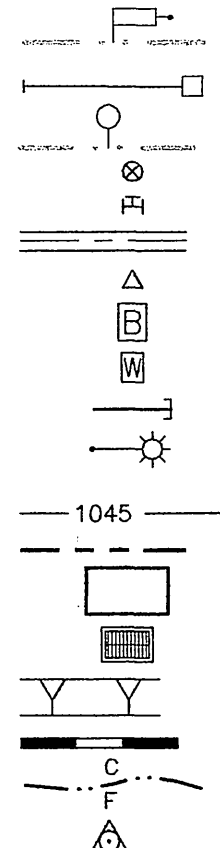
MARK: DESIGNED BY: JC DRAWN BY: SC CHECKED BY: LJ

LEGEND AND ABBREVIATIONS:

AC ASPHALT CONCRETE
C/L CENTERLINE
EX EXISTING
FF FINISHED FLOOR
FG FINISHED GRADE
FS FINISHED SURFACE
FH FIRE HYDRANT
FL GAS LINE
G GRADE BREAK
HP HIGH POINT
INV INVERT ELEVATION
LD LOCAL DEPRESSION
LF LINEAL FEET
MAX MAXIMUM
MH MANHOLE
MIN MINIMUM
PL PROPERTY LINE
PA PLANTED AREA
R/W RIGHT OF WAY
S SLOPE OF PIPE
SD STORM DRAIN
SWR SEWER
SS SANITARY SEWER
TC TOP OF CURB
TF TOP OF FOOTING
TG TOP OF GRADE
TW TOP OF WALL
TYP TYPICAL
W WATER
WM WATER METER
WV WATER VALVE
CFS CUBIC FEET PER SECOND
FPS FEET PER SECOND



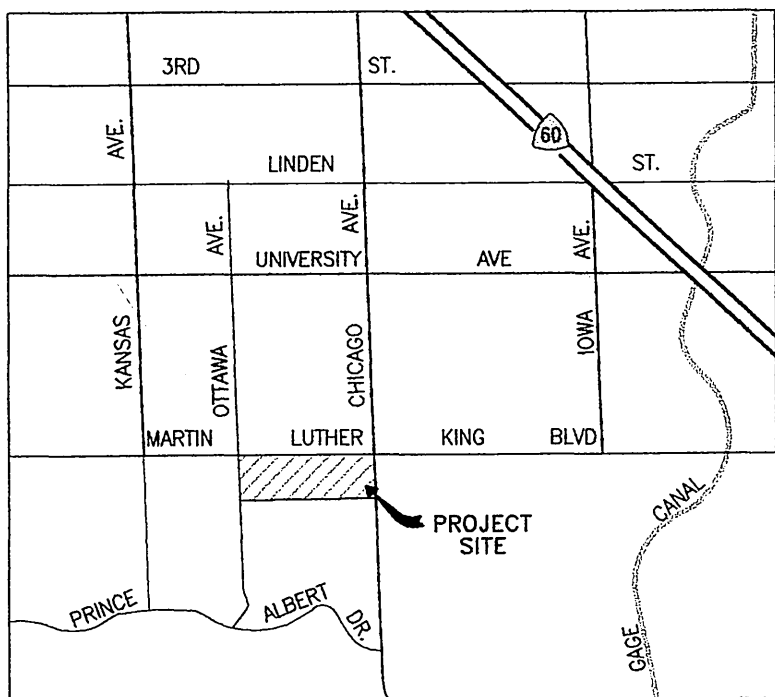
EXISTING STORM DRAIN
EXISTING WATER PIPELINE
EXISTING SEWER LINE
EXISTING GAS LINE
EXISTING ELECTRICAL CONDUIT
EXISTING TELEPHONE CONDUIT
EXISTING MANHOLE (SMH, SDMH or EMH)
EXISTING FIRE HYDRANT
EXISTING VALVE
EXISTING STREET LIGHT
EXISTING CONTOUR
PROPOSED SEWER LATERAL
PROPOSED SEWER CLEANOUT
PROPOSED GREASE INTERCEPTOR
PROPOSED BACKFLOW PREVENTION DEVICE
PROPOSED FIRE DEPT. CONNECTION
PROPOSED SEWER LINE
PROPOSED SEWER MANHOLE
PROPOSED WATER PIPELINE
FIRE HYDRANT ASSEMBLY
GATE VALVE



AIR & VACUUM RELEASE VALVE
PROPOSED WATER LATERAL
BLOW-OFF VALVE
PROPOSED VALVE
PROPOSED TEE
PROPOSED STORM DRAIN
PROPOSED THRUST BLOCK
PROP. IRRIG. BACKFLOW PREVENTION DEVICE
PROPOSED WATER METER
PROPOSED CAP
PROPOSED STREET LIGHT
PROPOSED CONTOUR
TRACT BOUNDARY
PROPOSED STORM DRAIN CURB INLET
PROPOSED STORM DRAIN GRATED INLET
2:1 SLOPES
RETAINING WALL
CUT/FILL LINE
BENCHMARK

SHEET INDEX

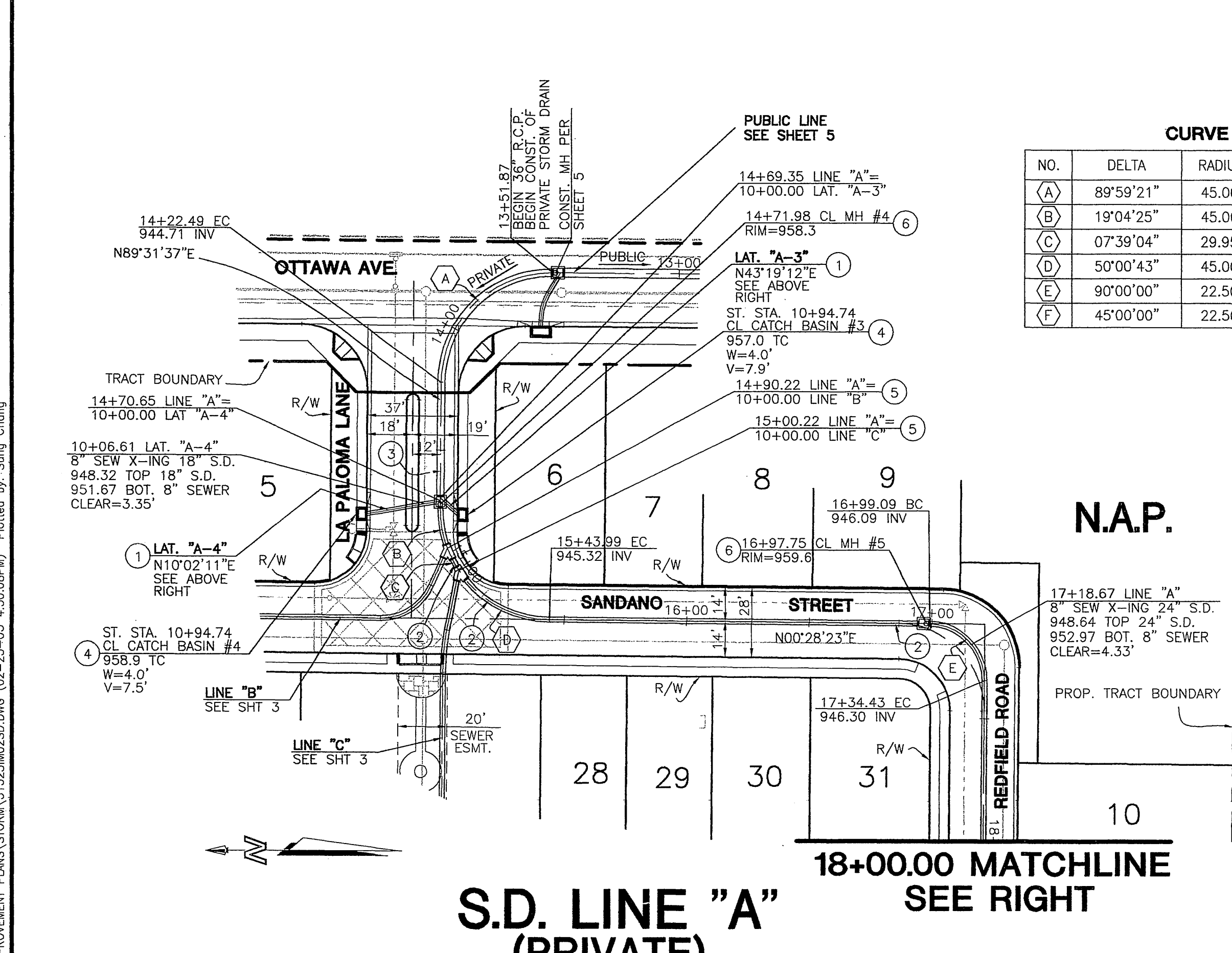
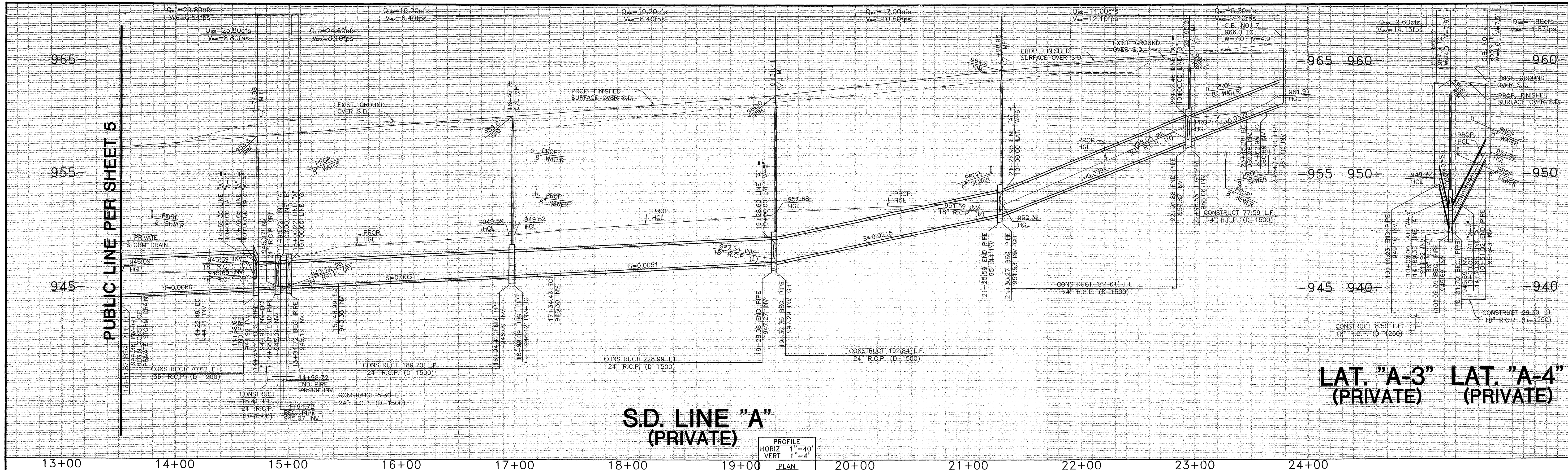
SHEET 1 TITLE SHEET
SHEET 2 STORM DRAIN IMPROVEMENT PLAN
SHEET 3 STORM DRAIN IMPROVEMENT PLAN
SHEET 4 STORM DRAIN IMPROVEMENT PLAN
SHEET 5 OFF-SITE STORM DRAIN IMPROVEMENT PLAN



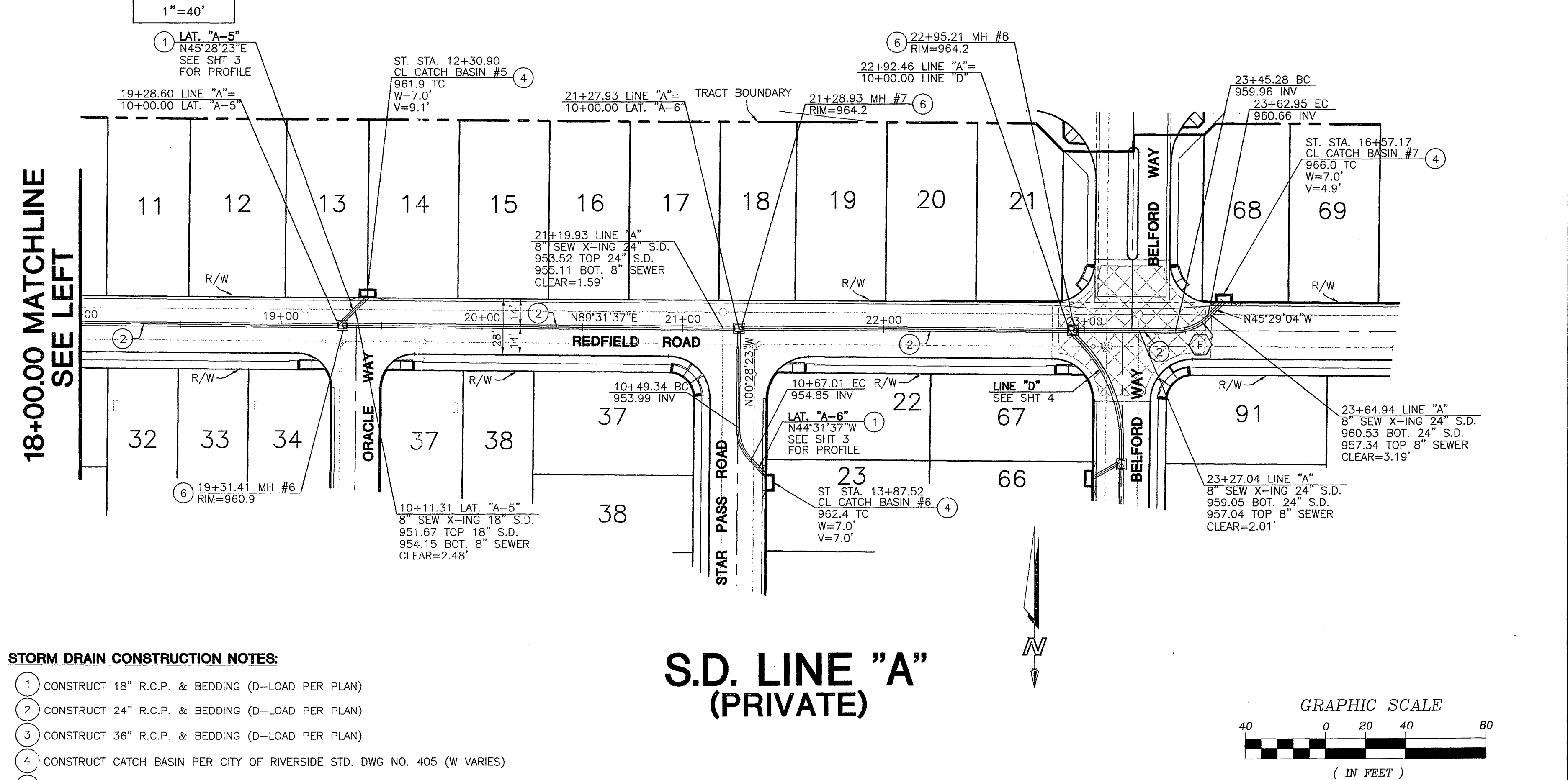
VICINITY MAP
NTS

STORM DRAIN CONSTRUCTION NOTES:

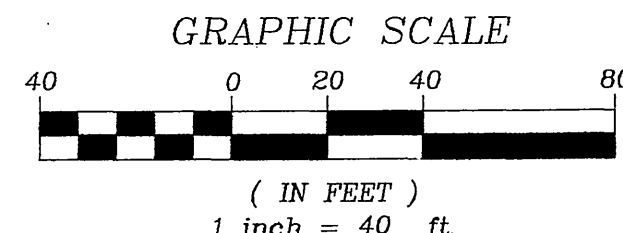
NO.	DESCRIPTION	QUANTITY	UNIT
1	CONSTRUCT 18" R.C.P. & BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452 (D-LOAD PER PLAN)	312	LF
2	CONSTRUCT 24" R.C.P. & BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452 (D-LOAD PER PLAN)	1,963	LF
3	CONSTRUCT 36" R.C.P. & BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452 (D-LOAD PER PLAN)	121	LF
4	CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG NO. 405 (W=VARIES)	16	EA
5	CONSTRUCT JUNCTION STRUCTURE TYPE B PER CITY OF RIVERSIDE STD. DWG NO. 421	2	EA
6	CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG NO. 430	11	EA
7	CONSTRUCT 42" R.C.P. & BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452 (D-LOAD PER PLAN)	352	LF
8	INSTALL 8" PLUG	1	EA



CURVE DATA				
NO.	DELTA	RADIUS	LENGTH	TANGENT
(A)	89°59'21"	45.00'	70.62'	44.94'
(B)	19°04'25"	45.00'	14.98'	7.56'
(C)	07°39'04"	29.95'	4.00'	2.00'
(D)	50°00'43"	45.00'	39.28'	20.99'
(E)	90°00'00"	22.50'	35.34'	22.50'
(F)	45°00'00"	22.50'	17.67'	9.32'



- STORM DRAIN CONSTRUCTION NOTES:**
- CONSTRUCT 18" R.C.P. & BEDDING (D-LOAD PER PLAN)
 - CONSTRUCT 24" R.C.P. & BEDDING (D-LOAD PER PLAN)
 - CONSTRUCT 36" R.C.P. & BEDDING (D-LOAD PER PLAN)
 - CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG NO. 405 (W VARIES)
 - CONSTRUCT JUNCTION STRUCTURE TYPE B PER CITY OF RIVERSIDE STD. DWG NO. 421
 - CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG NO. 430



BUSINESS TAX CERTIFICATE

NO. 116058

06/01/05

EXP. DATE

DIG ALERT

DIAL TOLL FREE
1-800-227-2600

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
OF SOUTHERN CALIFORNIA

PRIVATE ENGINEERING NOTE:

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDED SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF:

STEVEN L. ELLIS
REGISTERED CIVIL ENGINEER No. 047255

EXPIRATION DATE 12/31/05

DATE 2/20/05

SCALE: AS SHOWN

02/25/05

BENCHMARK:

BENCH MARK: CITY OF RIVERSIDE
BENCH MARK DESIGNATION: 117-03
ELEVATION: 955.880 / NOD 1920
ESTABLISHED BY C.R.S. 1870 / LEVELED 1986

P.K. NAL AND CITY ENGINEER TAG IN THE NORTHEAST CORNER OF A CATCHBASIN ALONG THE NORTHERLY CURB OF MARTIN LUTHER KING BLVD. AT THE NORTHEAST CORNER OF OTTAWA AVE AND MARTIN LUTHER KING BLVD.

PREPARED BY:

FUSCOE
ENGINEERS

10000 Commerce Center Dr., Ste. 200
Rancho Cucamonga, California 91700
Phone (909) 581-0076
Fax (909) 581-0066
Civil Engineers Land Surveyors
Job Number: 315.2501

**CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT**

APPROVED BY: DATE: BY: 3/2/05

PRINCIPAL ENGINEER

50 SERVICES

TRAFFIC DIVISION

DESIGNED BY: JC DRAWN BY: SC CHECKED BY: LJ

**STORM DRAIN IMPROVEMENT PLAN
FOR
S.D. LINE "A"
FROM STA 14+224.9 TO STA 23+74.14**

LATERALS "A-3", "A-4"

FOR: D.R. HORTON

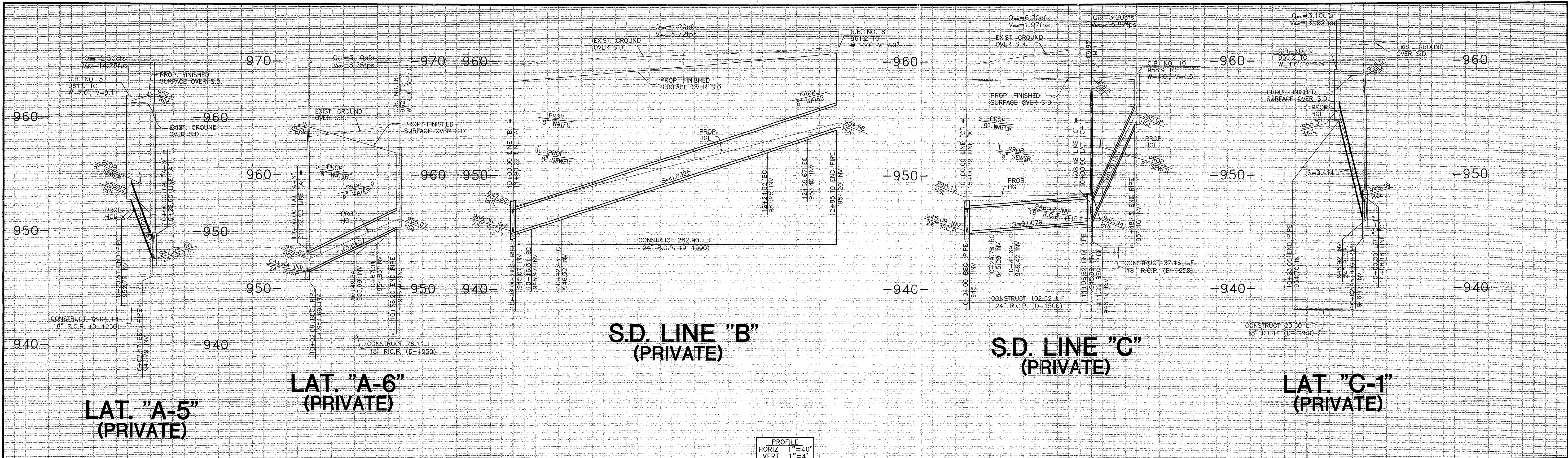
W.O.F.B. FILE NO.

PW04-0450

DWG NO. D-766

SHEET 2 OF 5 SHEETS

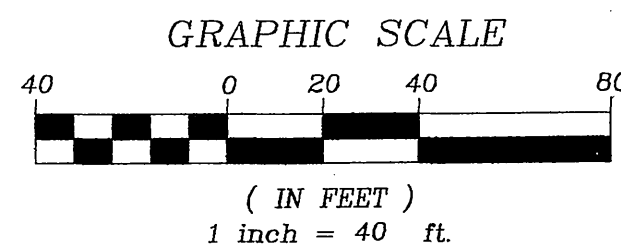
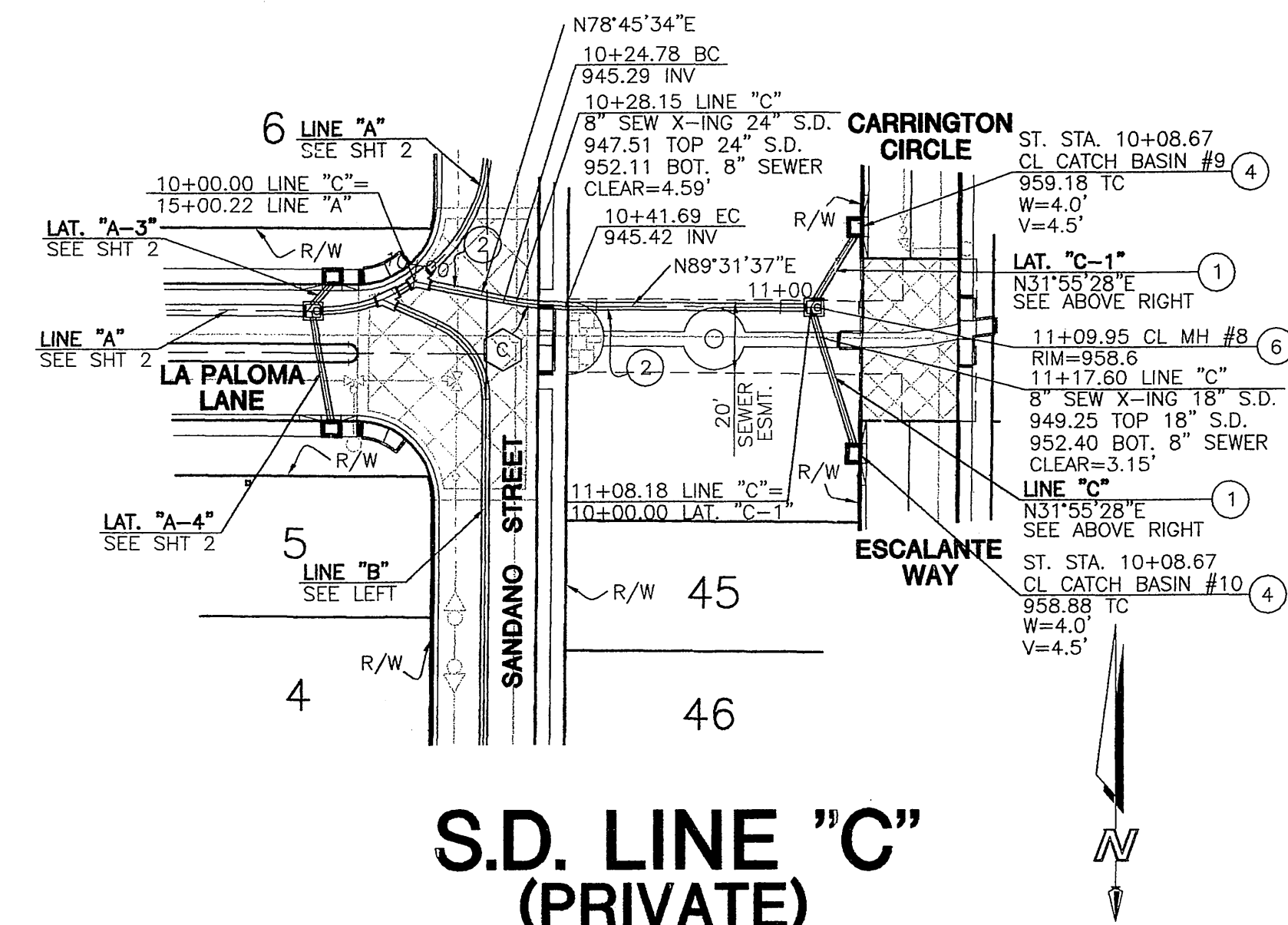
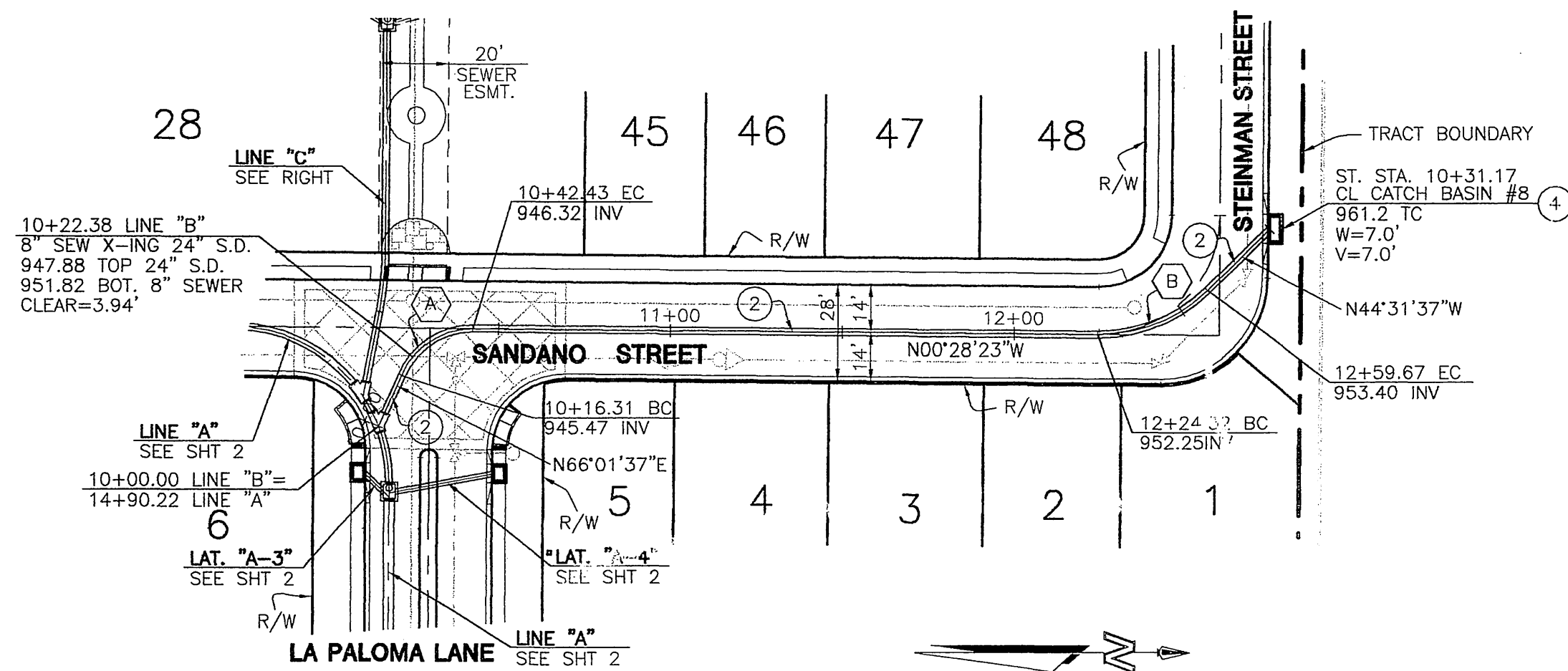
INDEXED 3-10-05



CURVE DATA				
NO.	DELTA	RADIUS	LENGTH	TANGENT
(A)	66°30'00"	22.50'	26.11'	14.75'
(B)	45°00'00"	45.00'	35.34'	18.64'
(C)	10°46'03"	90.00'	16.91'	8.48'

STORM DRAIN CONSTRUCTION NOTES:

- 1) CONSTRUCT 18" R.C.P. & BEDDING (D-LOAD PER PLAN)
- 2) CONSTRUCT 24" R.C.P. & BEDDING (D-LOAD PER PLAN)
- 4) CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG NO. 405 (W VARIES)
- 6) CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG NO. 430



BUSINESS TAX CERTIFICATE

NO. 116058

06/01/05
EXP. DATE

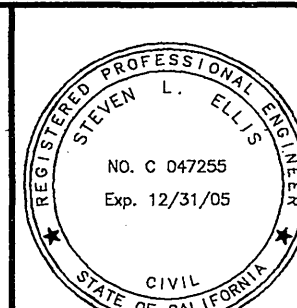
DIG ALERT

DIAL TOLL FREE
1-800-227-2600

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
OF SOUTHERN CALIFORNIA

PRIVATE ENGINEERING NOTE:
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY
ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE
REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB
SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT.
INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS
REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED
TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER
AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS
FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE
PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING
FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE DIRECTION OF:

STEVEN L. ELLIS
REGISTERED CIVIL ENGINEER NO. 047255
EXPIRATION DATE 12/31/05 DATE: 2/28/05

SCALE: AS SHOWN
02/25/05
BENCHMARK:
BENCH MARK: CITY OF RIVERSIDE
BENCH MARK DESIGNATION: H7-03
ELEVATION: 955.880' / NOD 1923
ESTABLISHED BY C.R.S. 1970 / LEVELED 1986
P.K. NAIL AND CITY ENGINEER TAG IN THE NORTHEAST CORNER OF A CATCHBASIN ALONG THE
NORTHERLY CURVE OF MARTIN LUTHER KING BLVD. AT THE NORTHEAST CORNER OF OTTAWA AVE
AND MARTIN LUTHER KING BLVD.

PREPARED BY:

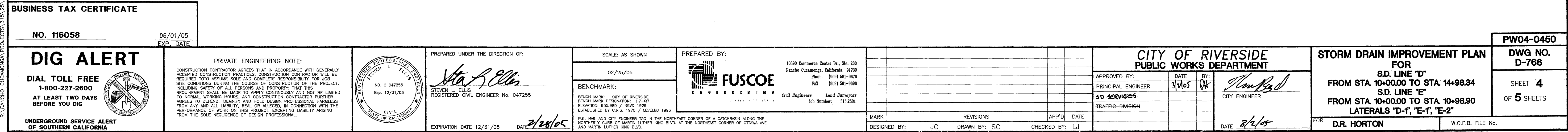
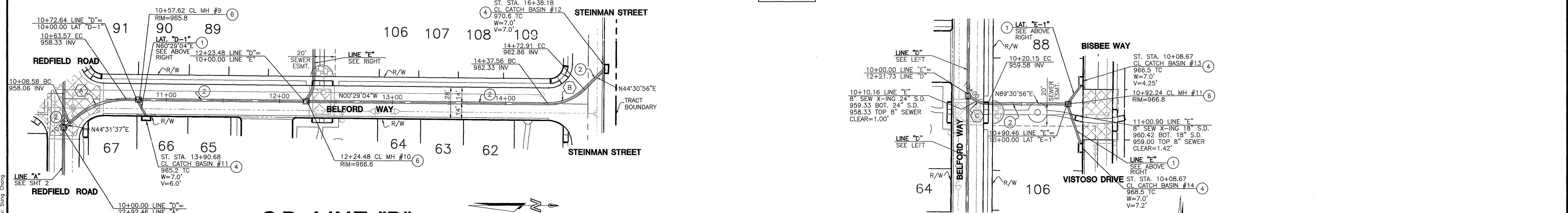
10900 Comstock Center Dr., Ste. 300
Rancho Cucamonga, California 91730
Phone (909) 581-0076
Fax (909) 581-0088
Civil Engineers Land Surveyors
Job Number: 3152001

MARK
DESIGNED BY: JC
REVISIONS
DRAWN BY: SC
APPRO'D
DATE
CHECKED BY: LJ

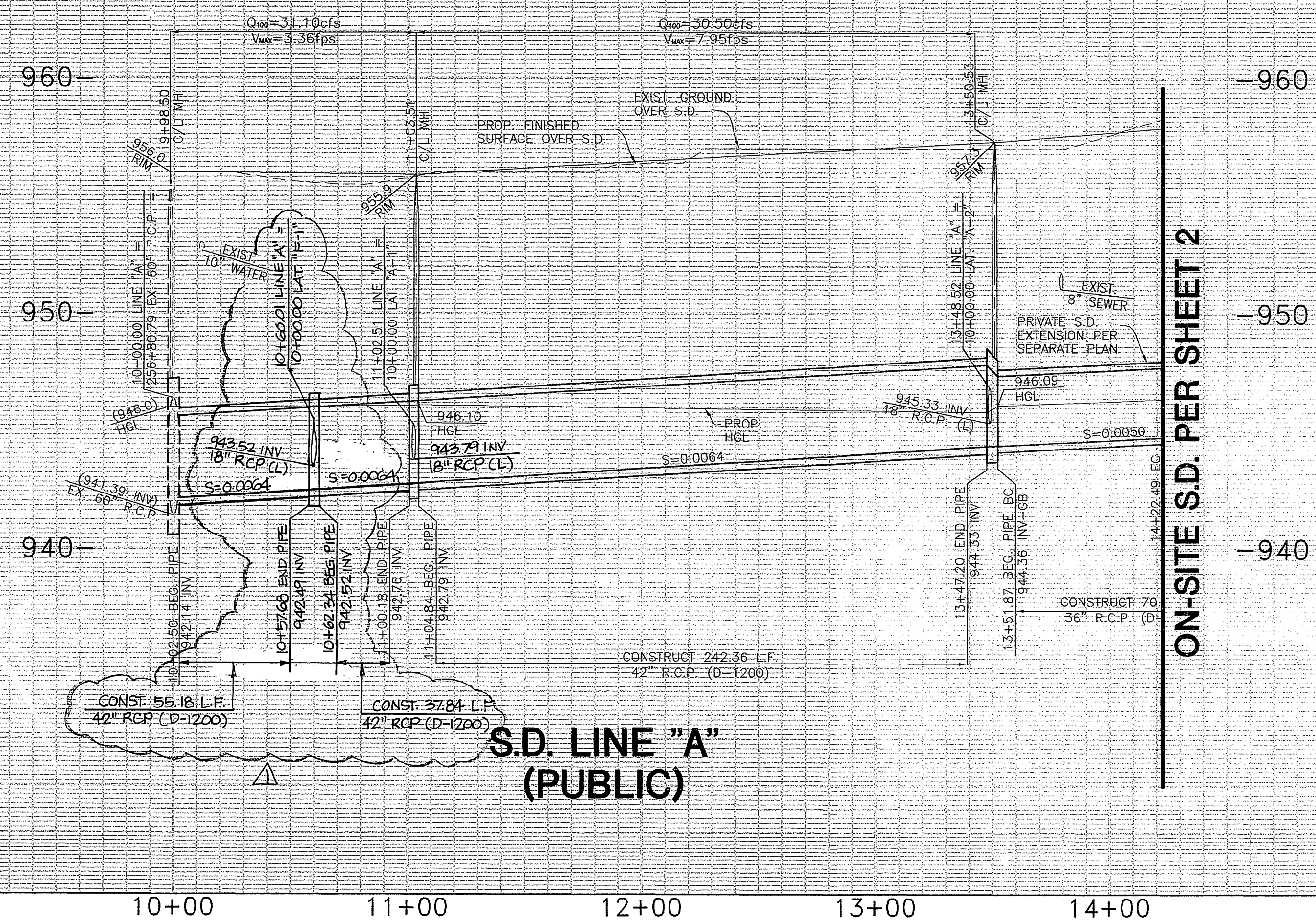
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY: DATE: 3/2/05 BY:
PRINCIPAL ENGINEER
SD SERVICES
TRAFFIC DIVISION
CITY ENGINEER
DATE: 3/2/05

STORM DRAIN IMPROVEMENT PLAN
FOR
S.D. LINE "B"
FROM STA. 10+00.00 TO STA. 12+85.10
S.D. LINE "C"
FROM STA. 10+00.00 TO STA. 11+16.62
LATERALS "A-5", "A-6", "C-1", "C-2"
FOR: D.R. HORTON
W.O.F.B. FILE NO.

PW04-0450
DWG NO.
D-766
SHEET 3
OF 5 SHEETS
INDEXED 3-10-05 4-H



R:\RANCHIO CUCAMONCA\PROJECTS\31515\IMPROVEMENT PLANS\STORM\31525\M055.DWG (02-28-05 8:20:26AM) Plotted by: Sing Chang



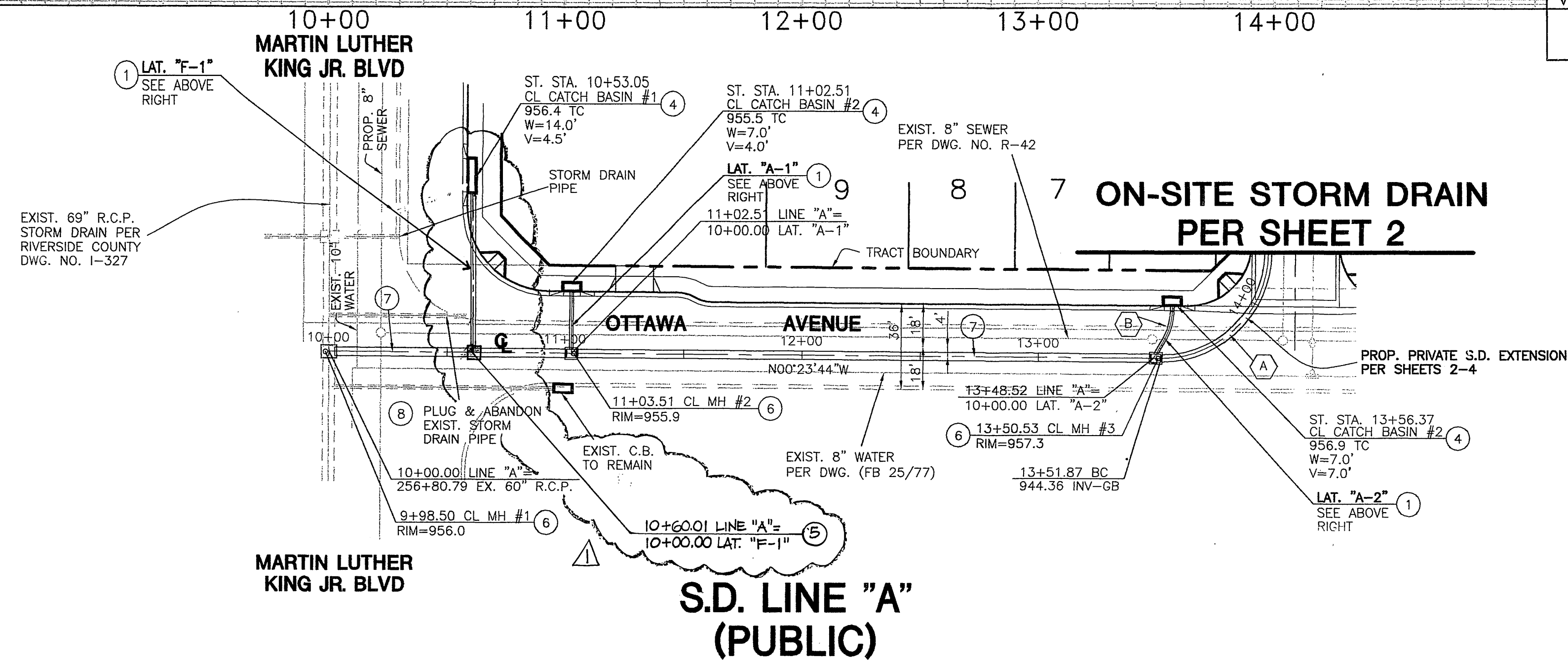
ON-SITE S.D. PER SHEET 2

LAT. "A1"

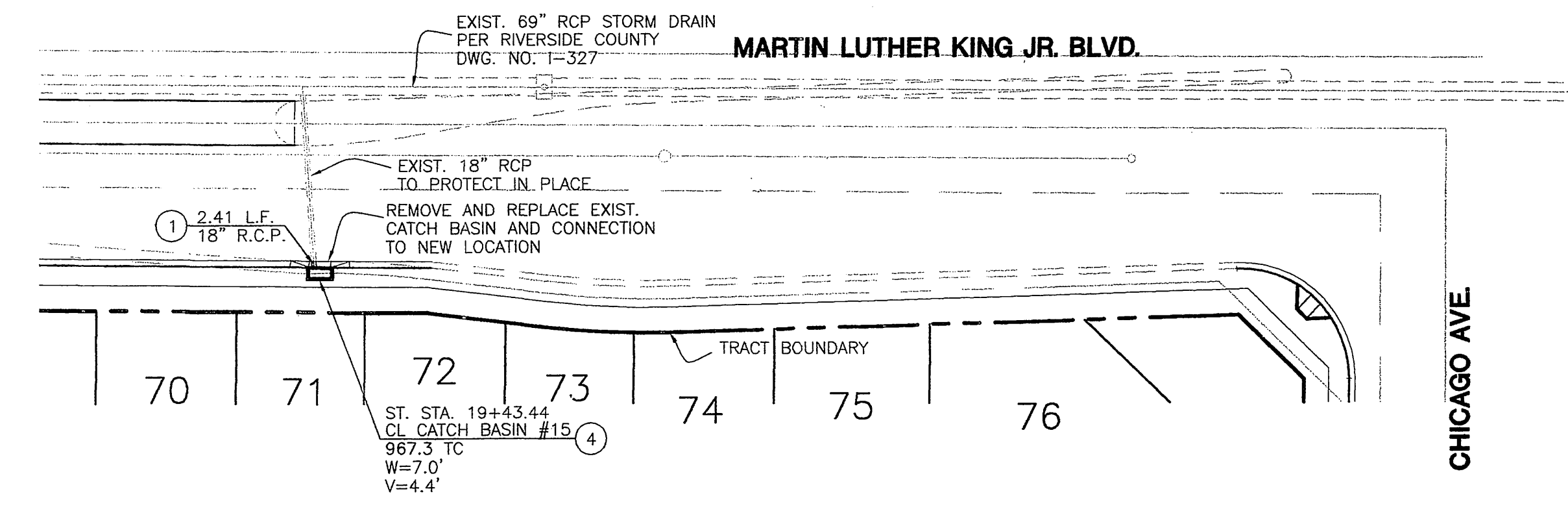
LAT. "A2"

LAT. "F1"

PROFILE	
HORIZ	1"=40'
VERT	1"=4'
PLAN	
1"=40'	



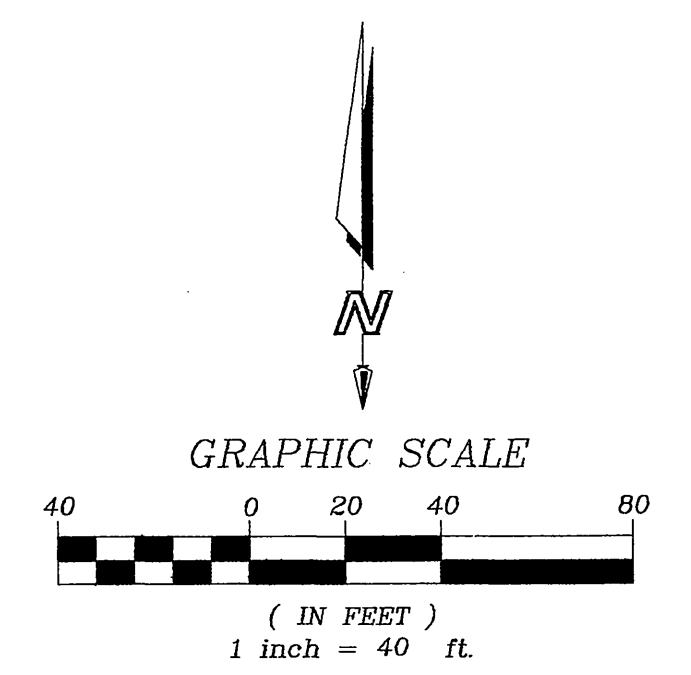
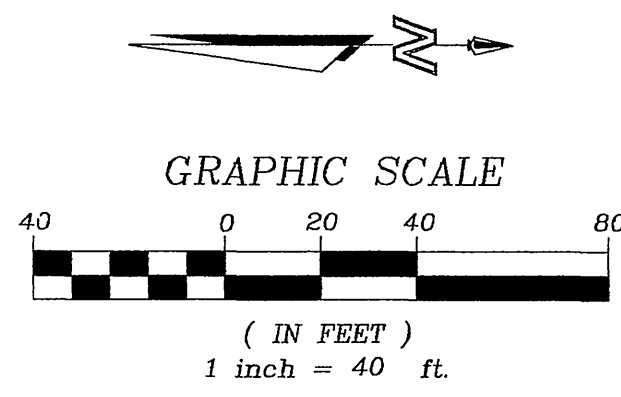
ON-SITE STORM DRAIN PER SHEET 2



S.D. LINE "A" (PUBLIC)

CURVE DATA				
NO.	DELTA	RADIUS	LENGTH	TANGENT
(A)	89°55'25"	45.00'	70.62'	44.94'
(B)	30°00'00"	22.50'	11.78'	6.03'

- STORM DRAIN CONSTRUCTION NOTES:**
1. CONSTRUCT 18" R.C.P. & BEDDING (D-LOAD PER PLAN)
 2. CONSTRUCT 42" R.C.P. & BEDDING (D-LOAD PER PLAN)
 3. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG NO. 405 (W VARIES)
 4. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG NO. 430
 5. INSTALL 8" PLUG
 6. CONSTRUCT JUNCTION STRUCTURE PER CITY OF RIVERSIDE STD. DWG. NO. 421



BUSINESS TAX CERTIFICATE
NO. 116058
06/01/05
EXP. DATE

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG

PRIVATE ENGINEERING NOTE:
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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. ELLIS
NO. C 047255
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
Steven L. Ellis
STEVEN L. ELLIS
REGISTERED CIVIL ENGINEER No. 047255
EXPIRATION DATE 12/31/05
DATE: 2/28/05

SCALE: AS SHOWN
02/25/05
BENCHMARK:
BENCH MARK: CITY OF RIVERSIDE
BENCH MARK DESCRIPTION: 171-03
ELEVATION: 955.980 / NVD 1929
ESTABLISHED BY C.R.S. 1970 / LEVELED 1996
P.A. MAIL AND CITY ENGINEER TAG IN THE NORTHEAST CORNER C A CATCH BASIN ALONG THE NORTHERLY CURB OF MARTIN LUTHER KING BLVD. AT THE NORTH WEST CORNER OF OTTAWA AVE AND MARTIN LUTHER KING BLVD.

PREPARED BY:
FUSCOE
ENGINEERS
16980 Commerce Center Dr., Ste. 200
Rancho Cucamonga, California 91730
Phone: (909) 581-0076
FAX: (909) 581-0066
Civil Engineers Land Surveyors
Job Number: 3152501

REVISIONS		APP'D	DATE
MARK	REVISIONS		
DESIGNED BY:	JC	DRAWN BY:	SC
CHECKED BY:	LJ		

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY: *[Signature]*
PRINCIPAL ENGINEER
DATE: 2/2/05
BY: *[Signature]*
CITY ENGINEER
TRAFFIC DIVISION: *[Signature]*
DATE: 3/2/05

STORM DRAIN IMPROVEMENT PLAN
FOR
S.D. LINE "A"
FROM STA 10+00.00 TO STA 14+22.49
LATERALS "A-1", "A-2"
FOR: **DR. HORTON**
W.O.F.B. FILE No.

PW04-0450
DWG NO.
D-766
SHEET 5
OF 5 SHEETS